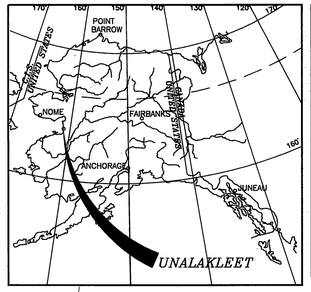
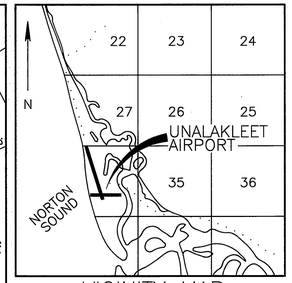


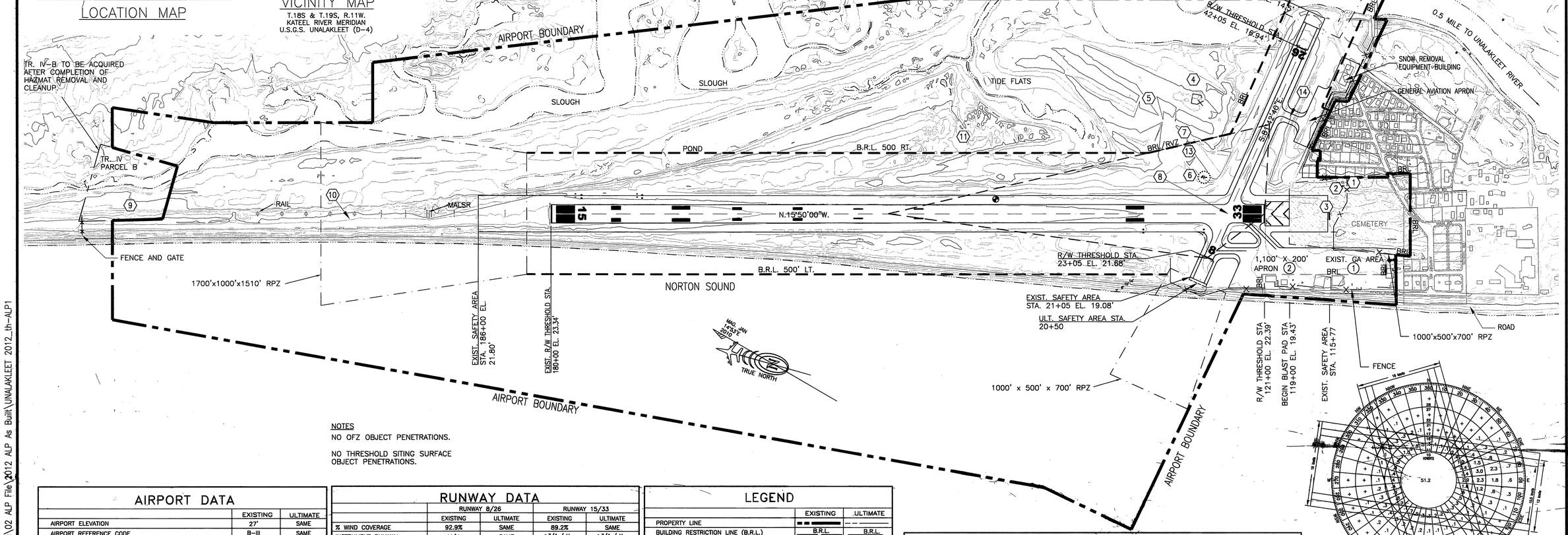
LOCATION MAP



VICINITY MAP

T.18S & T.19S, R.11W.
KATEEL RIVER MERIDIAN
U.S.G.S. UNALAKLEET (D-4)

1. DME ANTENNA
2. LOCALIZER VAN
3. LOCALIZER ANTENNA
4. OVERHEAD POWERLINE, POLE MOUNTED
5. VHF DIRECTION FINDER ARRAY
6. SEGMENTED CIRCLE
7. NATIONAL WEATHER SERVICE BLDG.
8. RUNWAY INTERSECTION EL. 22.02' STA. 124+3.75 R/W 15/33= STA. 27+10 R/W 8/26
9. NDB ANTENNA TOWERS
10. TRANSFORMERS
11. ARCHAEOLOGICAL SITE
12. SEWAGE LAGOON
13. AWOS
14. T/W C RW 8-26 STA. 36+50



NOTES

NO OFZ OBJECT PENETRATIONS.

NO THRESHOLD SITING SURFACE OBJECT PENETRATIONS.

AIRPORT DATA

		EXISTING	ULTIMATE
AIRPORT ELEVATION		27'	SAME
AIRPORT REFERENCE CODE		B-III	SAME
MEAN HIGH TEMP. HOTTEST MONTH (JULY)		62°F	SAME
TAXIWAY LIGHTING		MITL	SAME
RAMP LIGHTING		FLOODLIGHTS	SAME
NAVIGATION AIDS		VOR,DME,LOC,NDB	SAME
COMMUNICATION AIDS			SAME
AIRPORT REFERENCE POINT (ARP)	LAT.	63°53'17.96" N.	
R/W 15-33 STA. 143+22.75, 120' RT.	LONG.	160°47'56.79" W.	
THRESHOLD 8 STA. 23+05	LAT.	63°52'57.68" N.	
	LONG.	160°47'56.23" W.	
THRESHOLD 26 STA. 42+05	LAT.	63°52'54.98" N.	
	LONG.	160°47'14.25" W.	
THRESHOLD 15 STA. 180+00	LAT.	63°53'52.83" N.	
	LONG.	160°48'21.78" W.	
THRESHOLD 33 STA. 121+00	LAT.	63°52'56.96" N.	
	LONG.	160°47'45.77" W.	

RUNWAY DATA

	RUNWAY 8/26		RUNWAY 15/33	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE
% WIND COVERAGE	92.9%	SAME	89.2%	SAME
INSTRUMENT RUNWAY	V/V	SAME	≥3/4 / V	≥3/4 / V
RUNWAY SURFACE TYPE	PAVED	SAME	PAVED	SAME
PAVEMENT STRENGTH	N/A	175,000# (DW)	N/A	175,000# (DW)
APPROACH SURFACES	20:1 20:1	SAME	34:1 20:1	SAME
RUNWAY LIGHTING	MIRL	SAME	MIRL	SAME
RUNWAY MARKING	VISUAL/VISUAL	SAME	PRECISION/VISUAL	SAME
VISUAL APPROACH AIDS	NONE	SAME	REIL, MALSR, VASI	SAME
RUNWAY SAFETY AREA	150' x 2400'	150' x 2455'	300' X 7023'	300' X 7100'
RUNWAY DIMENSIONS	75' x 1900'	SAME	150' X 5900'	SAME
TAXIWAY WIDTH	50'	SAME	50'	SAME
TAXIWAY SAFETY AREA WIDTH	120'	SAME	120'	SAME
R/W OBJECT FREE AREA	500' X 2500'	SAME	800 'X 7100'	SAME
R/W OBSTACLE FREE ZONE	400 'X 2300'	SAME	400' X 6300'	SAME
T/W OBJECT FREE AREA WIDTH	131'	SAME	186'	SAME
TOUCHDOWN ZONE ELEV.	21.68'/21.68'	SAME	24.86'/22.57'	SAME

DATA BASE CONTROL YEAR: NAD 83; BASIS OF ELEVATION: KOUWEGOK SLOUGH BRIDGE ABUTMENT, ALUM. ROD "BM A 4469-S, 2004", ELEV. = 20.75'

LEGEND

	EXISTING	ULTIMATE
PROPERTY LINE		
BUILDING RESTRICTION LINE (B.R.L.)	B.R.L.	B.R.L.
DEVELOPMENT		
WIND CONE & SEGEMENTED CIRCLE		
WIND CONE ONLY		
BUILDING		
ROADWAY		
FENCING	--X--	--X--
AVIGATION AND HAZARD EASEMENT		

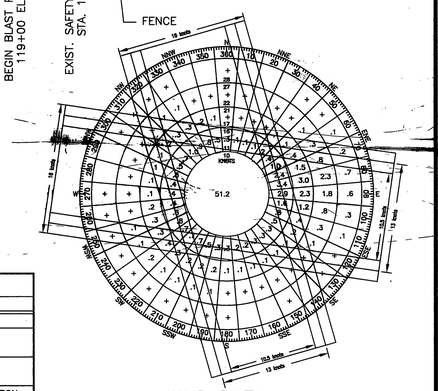
AIRPORT REFERENCE POINT
ROTATING BEACON
ANTENNA/TOWER
VASI
RAIL
MALSR
SHORELINE/WATERLINE
TREELINE
THRESHOLD
OVERHEAD POWER
RUNWAY VISUAL ZONE

NONSTANDARD CONDITIONS

	STANDARD	EXISTING	ULTIMATE	DISPOSITION
R/W 33 APPROACH END SAFETY AREA LENGTH	600'	523'	600'	RELOCATE LOCALIZER
R/W 8 APPROACH END SAFETY AREA LENGTH	300'	200'	255'	FUTURE UPGRADE
OBJECT FREE AREA	CLEAR	① ②	CLEAR	① MOVE TO FUTURE G.A. APRON ② TAXILANE

NOTES:

① EAST HALF OF EXIST. GEN. AVIATION TIEDOWN AREA
② EASTERN PORTION OF EXISTING APRON.



WIND DATA

SOURCE: UNIV. OF ALASKA STATE CLIMATE CENTER

STATION NAME: UNALAKLEET
PERIOD: 1965 - 1987

WIND COVERAGE R/W 8/26: 92.9% @ 13 KN., 87.4% @ 10.5 KN.
WIND COVERAGE R/W 15/33: 89.2% @ 20 KN., 80.4% @ 16 KN., 71.0% @ 13 KN., 62.9% @ 10.5 KN.

COMBINED WIND COVERAGE AT 13 KN: 97.3%

DESIGN TDH
DRAWN CAP
CHECKED RWC

BY	DATE	REVISIONS
TDH	11/9/12	AS-BUILT
TDH	7/1/09	UPDATE GA APRON LOCATION & ADD NEW SREB

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION-DESIGN AND CONSTRUCTION-AVIATION

APPROVED [signature] DATE 12/21/2012
RYAN F. ANDERSON, P.E. DESIGN GROUP CHIEF

AIRPORT LAYOUT PLAN
Approved By Letter Dated: 1/7/13
[signature]
AIRPORTS DIVISION, ALASKAN REGION, AAL-601

AIRSPACE: 2008AAL-25NRA

FEET
400 0 200 400 800

THIS ALP WAS PREPARED FROM THE PREVIOUS ALP AND THE AS-BUILTS FOR AIP 3-02-0309-04/60340.

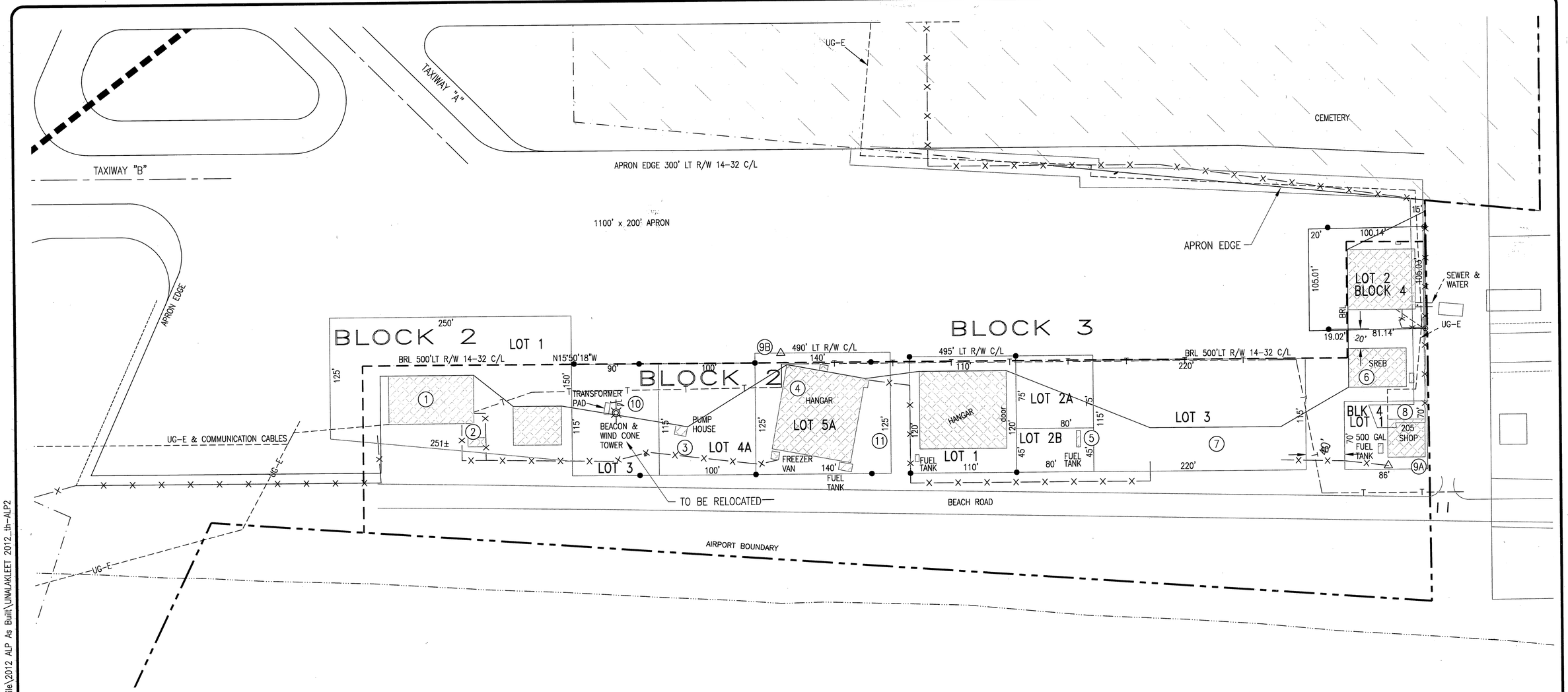
UNALAKLEET AIRPORT

AIRPORT LAYOUT PLAN

AIRPORT LAYOUT PLAN

SHEET 1 OF 6

T:\00 Aviation & Community Rds & Buildings\Unalakleet\0 General\02 ALP File\2012 ALP As Built\UNALAKLEET 2012_th-ALP1



TERMINAL AREA FACILITY LISTING		
NO.	FACILITY	ELEVATION
1	JOINT USE TERMINAL	57.7'
2	REFRIGERATION – STORAGE BUILDING	28.7'
3	PUMP HOUSE	26.4'
4	RYAN AIR HANGER	55.6'
5	FACILITY STORAGE TANKS	37.3'
6	SREB	44'±
7	DOT&PF VACANT LOT	N/A
8	WAREHOUSE	34.1'
9A	RADIO TOWER	67.6'
9B	RADIO ANTENNA	54.4'
10	LIGHTED WINDCONE W/ROTATING BEACON	73.2'
11	JACOB'S WIND GENERATOR ON TOWER	89.3'

DESIGN TDH
DRAWN CAP
CHECKED RWC

BY	DATE	REVISIONS
TDH	5/21/12	AS-BUILT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION–DESIGN AND CONSTRUCTION–AVIATION
APPROVED
RYAN F. ANDERSON, P.E. DESIGN GROUP CHIEF
DATE 12/21/2012

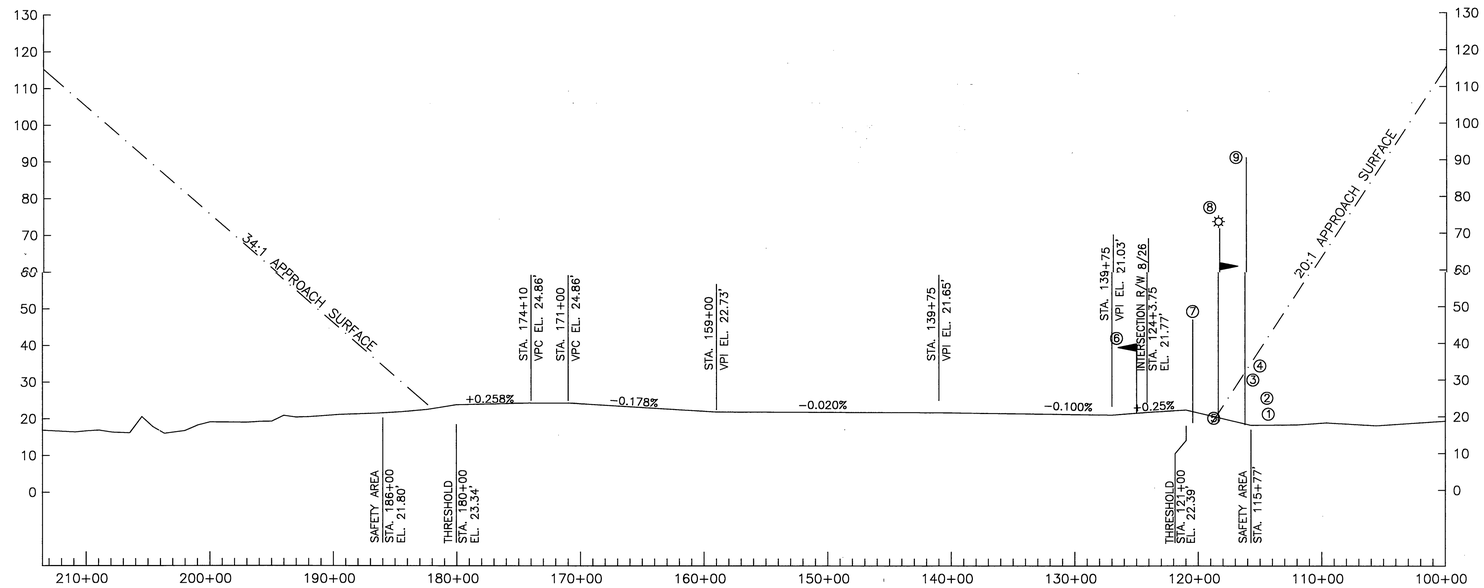
AIRPORT LAYOUT PLAN
Approved By Letter Dated: 1/7/13
AIRPORTS DIVISION, ALASKAN REGION, AAL-601
AIRSPACE: 2005AAL-186NRA

FEET
50 0 25 50 100

UNALAKLEET AIRPORT
R/W 14-32 ULTIMATE TERMINAL PLAN
AIRPORT LAYOUT PLAN

SHEET 2 OF 6

T:\00 Aviation & Community Rds & Buildings\Unalakleet\0 General\02 ALP File\2012 ALP As Built\UNALAKLEET 2012_th-ALP2

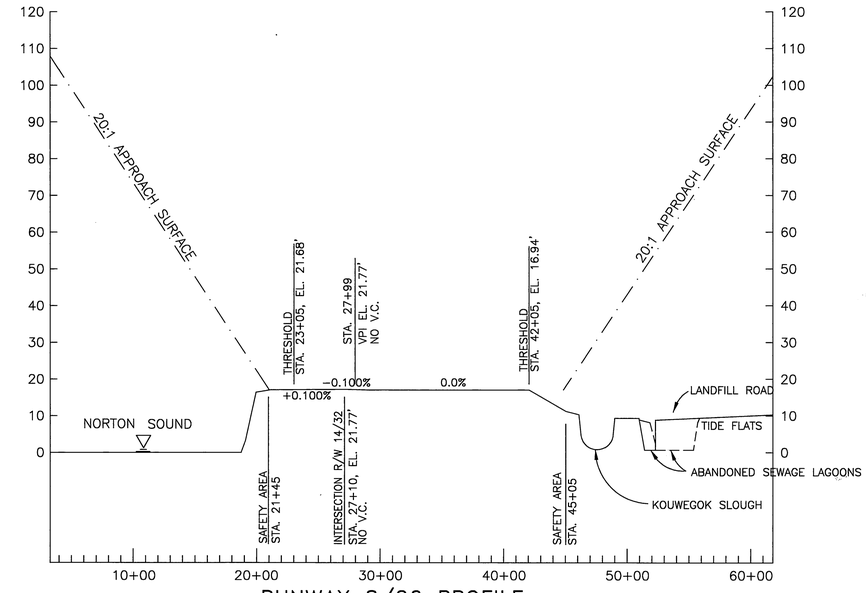


RUNWAY 15/33 PROFILE

NO.	STRUCTURE	R/W LOCATION	ELEV.:	EXISTING PENETRATION
1	DME ANTENNA	STA. 114+37.5, 259' RT.	29'	NONE
2	LOCALIZER VAN	STA. 114+52.6, 228' RT.	23'	NONE
3	LOCALIZER ANTENNA	STA. 115+60, C/L	20.7'	NONE
4	FENCE	STA. 115+34, 150'–300' LT TO 116+39, 300' RT.	23'	NONE
5	DIKE	STA. 118+73, 198' RT	15.8'	NONE
6	LWC W/SEGMENTED CIRCLE	STA. 126+16, 295' RT	32.1'	+8.2' (PRIMARY)
7	BUILDING	STA. 120+22, 518' LT	57.7'	+33.3' (TRANSITIONAL)
8	LIGHTED WINDCONE & BEACON ON TOWER	STA. 118+56, 550' LT	73.2'	+5.7 (TRANSITIONAL)
9	WIND GENERATOR TOWER	STA. 115+94, 592' LT	89.3'	+19.1' (TRANSITIONAL)
FAR PART 77 PENETRATIONS – R/W 33				

NOTE: SEE SHEET 4 FOR DISPOSITION

NO FAR PART 77 PENETRATIONS – RUNWAY 8/26



RUNWAY 8/26 PROFILE

T:\00 Aviation & Community Rds & Buildings\Unalakleet\0 General\02 ALP File\2012 ALP As Built\UNALAKLEET 2012_th-ALP3

DESIGN TDH
DRAWN CAP
CHECKED RWC

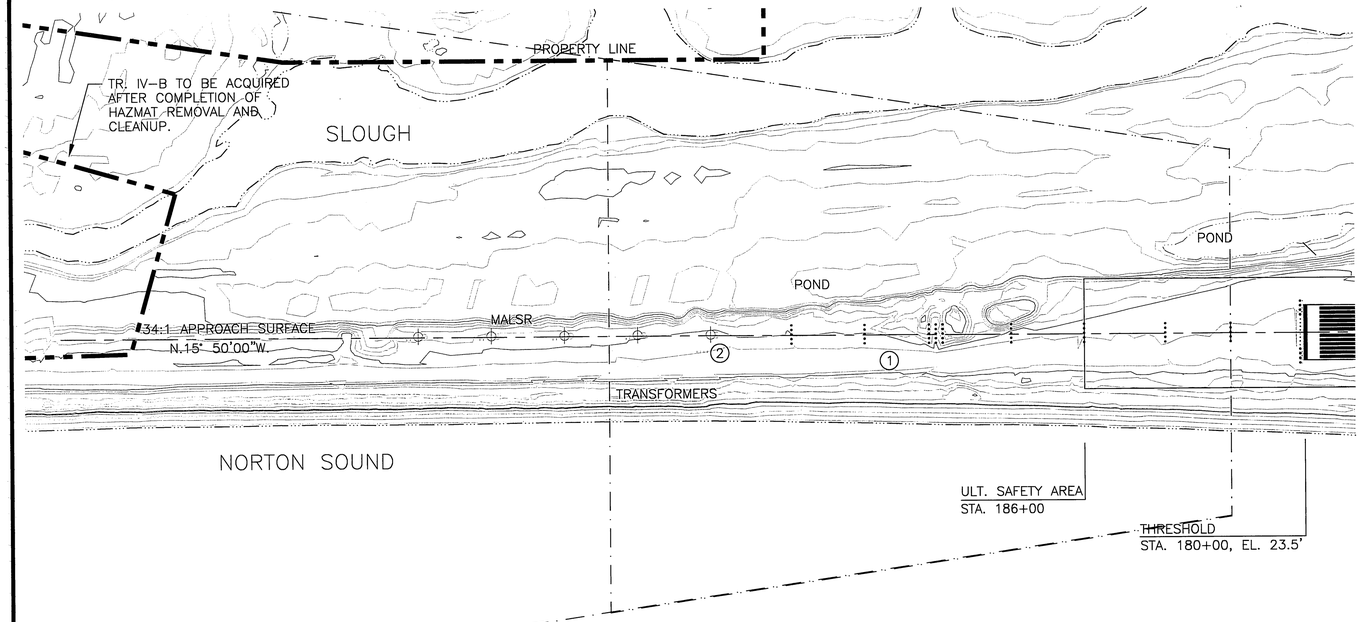
BY	DATE	REVISIONS

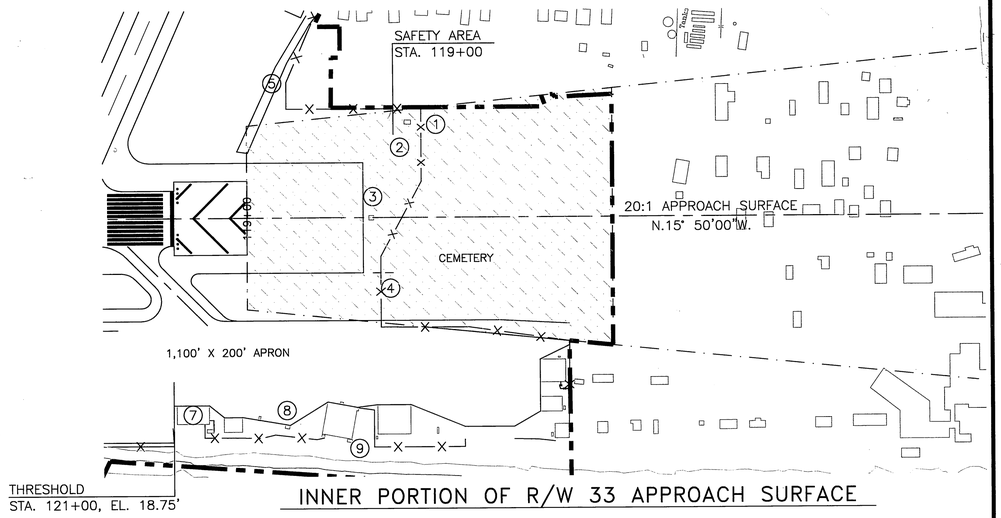
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION–DESIGN AND CONSTRUCTION–AVIATION
APPROVED DATE 12/21/2012
RYAN F. ANDERSON, P.E. DESIGN GROUP CHIEF

AIRPORT LAYOUT PLAN
Approved By Letter Dated: 1/7/13
AIRPORTS DIVISION, ALASKAN REGION, AAL–601
AIRSPACE: 2005AAL–186NRA

UNALAKLEET AIRPORT
RUNWAY PROFILES
AIRPORT LAYOUT PLAN

SHEET 3 OF 6

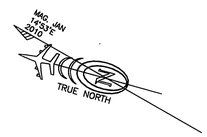




INNER PORTION OF R/W 33 APPROACH SURFACE

NO.	STRUCTURE	R/W LOCATION	ELEV. MSL:	EXISTING PENETRATION	DISPOSITION
1	DME ANTENNA	STA. 114+37.5, 259' RT.	29'	NONE	NO PENETRATION
2	LOCALIZER VAN	STA. 114+52.6, 228' RT.	23'	NONE	TO REMAIN
3	LOCALIZER ANTENNA	STA. 115+60, C/L	20.7'	NONE	TO REMAIN
4	FENCE	STA. 115+34, 150'-300' LT TO 116+39, 300' RT.	23'	NONE	TO REMAIN
5	DIKE	STA. 118+73, 198' RT	15.8'	NONE	TO REMAIN
6	LWC W/SEGMENTED CIRCLE (NOT SHOWN)	STA. 126+16, 295' RT	32.1'	+8.2' (PRIMARY)	TO REMAIN
7	BUILDING	STA. 120+22, 518' LT	57.7'	+33.3' (TRANSITIONAL)	TO REMAIN
8	LIGHTED WINDCONE & BEACON ON TOWER	STA. 118+56, 550' LT	73.2'	+5.7 (TRANSITIONAL)	TO BE RELOCATED
9	WIND GENERATOR TOWER	STA. 115+94, 592' LT	89.3'	+19.1' (TRANSITIONAL)	TO REMAIN

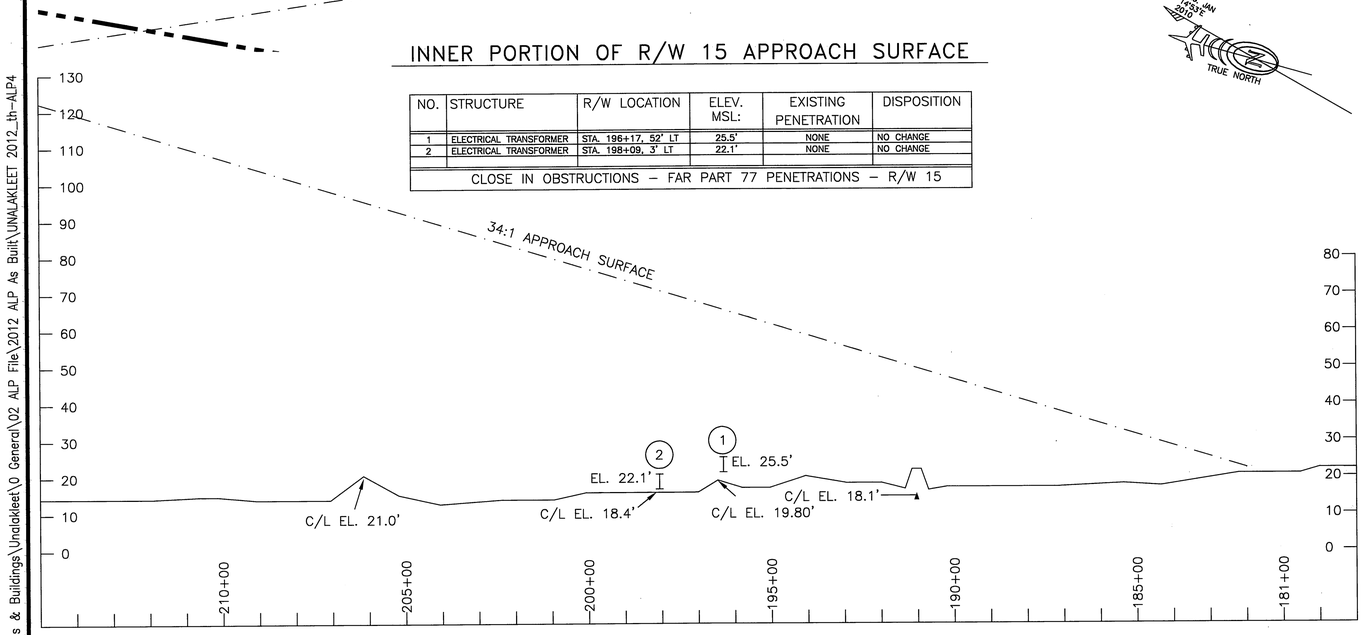
CLOSE IN OBSTRUCTIONS – FAR PART 77 PENETRATIONS – R/W 33



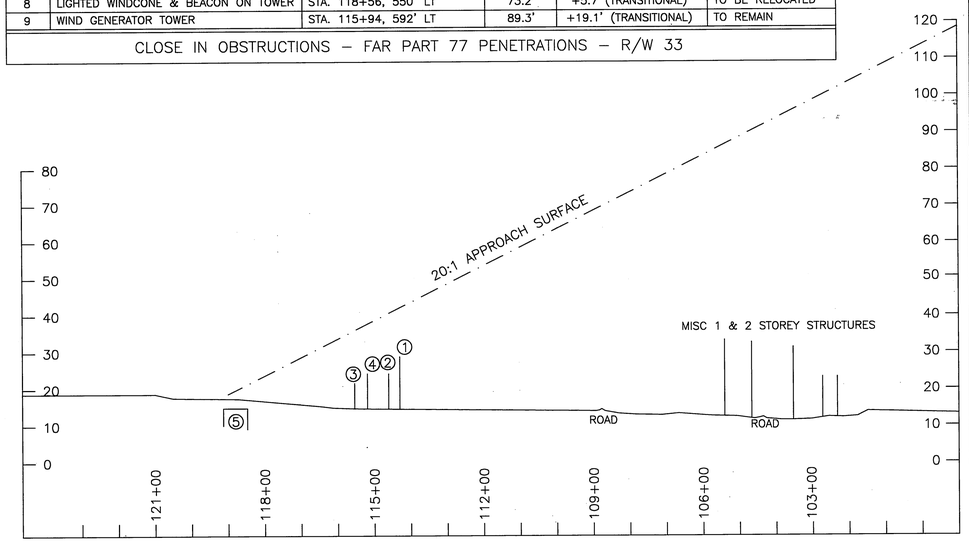
INNER PORTION OF R/W 15 APPROACH SURFACE

NO.	STRUCTURE	R/W LOCATION	ELEV. MSL:	EXISTING PENETRATION	DISPOSITION
1	ELECTRICAL TRANSFORMER	STA. 196+17, 52' LT	25.5'	NONE	NO CHANGE
2	ELECTRICAL TRANSFORMER	STA. 198+09, 3' LT	22.1'	NONE	NO CHANGE

CLOSE IN OBSTRUCTIONS – FAR PART 77 PENETRATIONS – R/W 15



APPROACH 15 PROFILE



APPROACH 33 PROFILE

T:\00 Aviation & Community Rds & Buildings\Unalakleet\0 General\02 ALP File\2012 ALP As Built\UNALAKLEET 2012_th-ALP4

DESIGN TDH
DRAWN CAP
CHECKED RWC

BY	DATE	REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION–DESIGN AND CONSTRUCTION–AVIATION
APPROVED DATE 12/21/2012
RYAN F. ANDERSON, P.E. DESIGN GROUP CHIEF

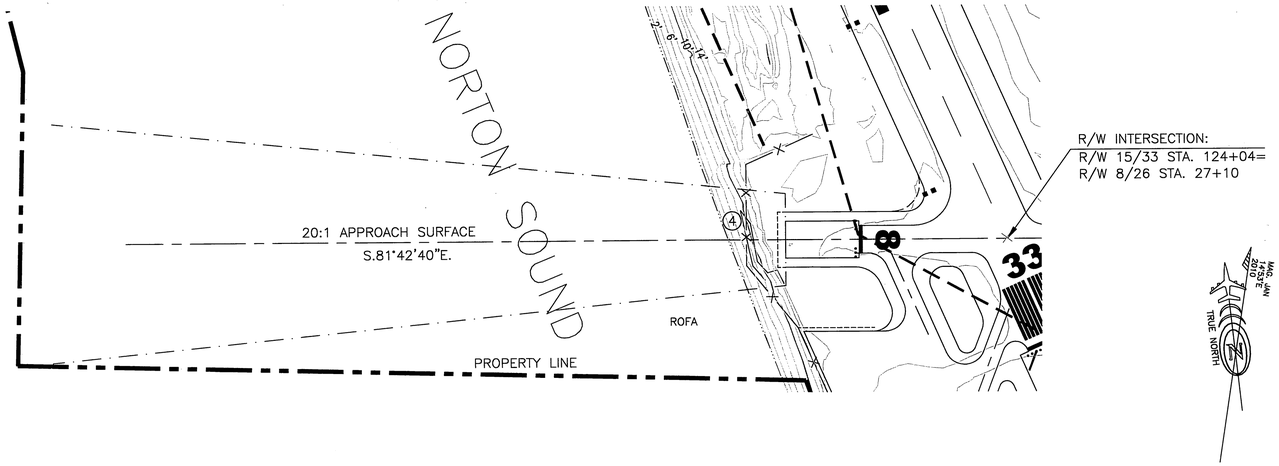
AIRPORT LAYOUT PLAN
Approved By Letter Dated: 1/7/13
AIRPORTS DIVISION, ALASKAN REGION, AAL-601
AIRSPACE: 2005AAL-186NRA

UNALAKLEET AIRPORT

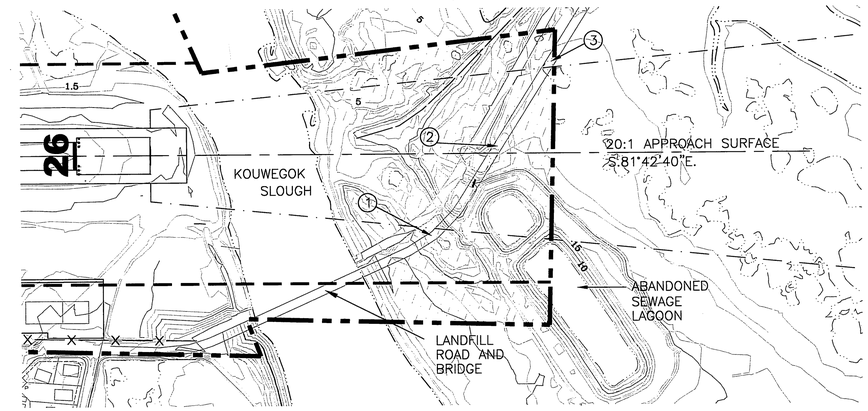
R/W 14-32 INNER PORTION OF APPROACH SURFACE

AIRPORT LAYOUT PLAN

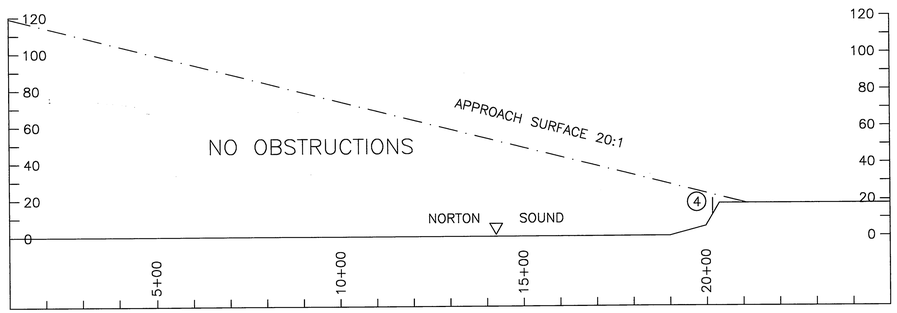
SHEET 4 OF 6



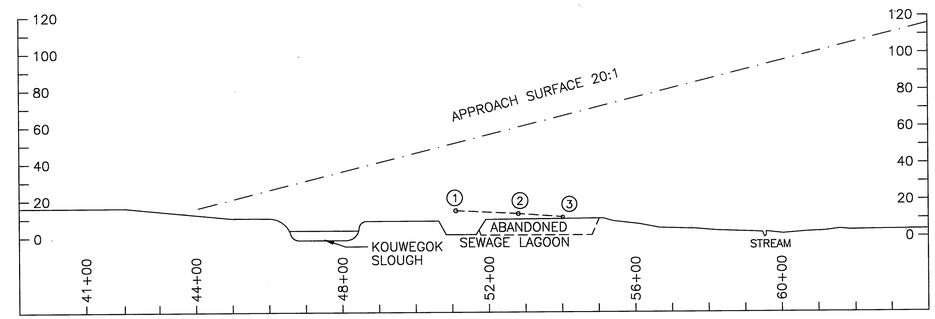
INNER PORTION OF RUNWAY 8 APPROACH SURFACE



INNER PORTION OF RUNWAY 26 APPROACH SURFACE



APPROACH 8 PROFILE



APPROACH 26 PROFILE

NO.	STRUCTURE	R/W LOCATION	ELEV. MSL:	EXISTING PENETRATION	DISPOSITION
1	ROAD SURFACE	STA. 51+55, 220' RT.	19.6'	-47.5'	NONE
2	ROAD SURFACE	STA. 53+55 AT R/W 26 C/L	13.4'	-57.5'	NONE
3	ROAD SURFACE	STA. 55+35, 260' LT.	11.5'	-66.5'	NONE
4	FENCE	STA. 20+25	11.5'	-14'	NONE
CLOSE IN OBSTRUCTIONS - FAR PART 77 PENETRATIONS - R/W 8-26					

T:\00 Aviation & Community Rds & Buildings\Unalakleet\0 General\02 ALP File\2012 ALP As Built\UNALAKLEET 2012_th-ALP5

DESIGN TDH
DRAWN CAP
CHECKED RWC

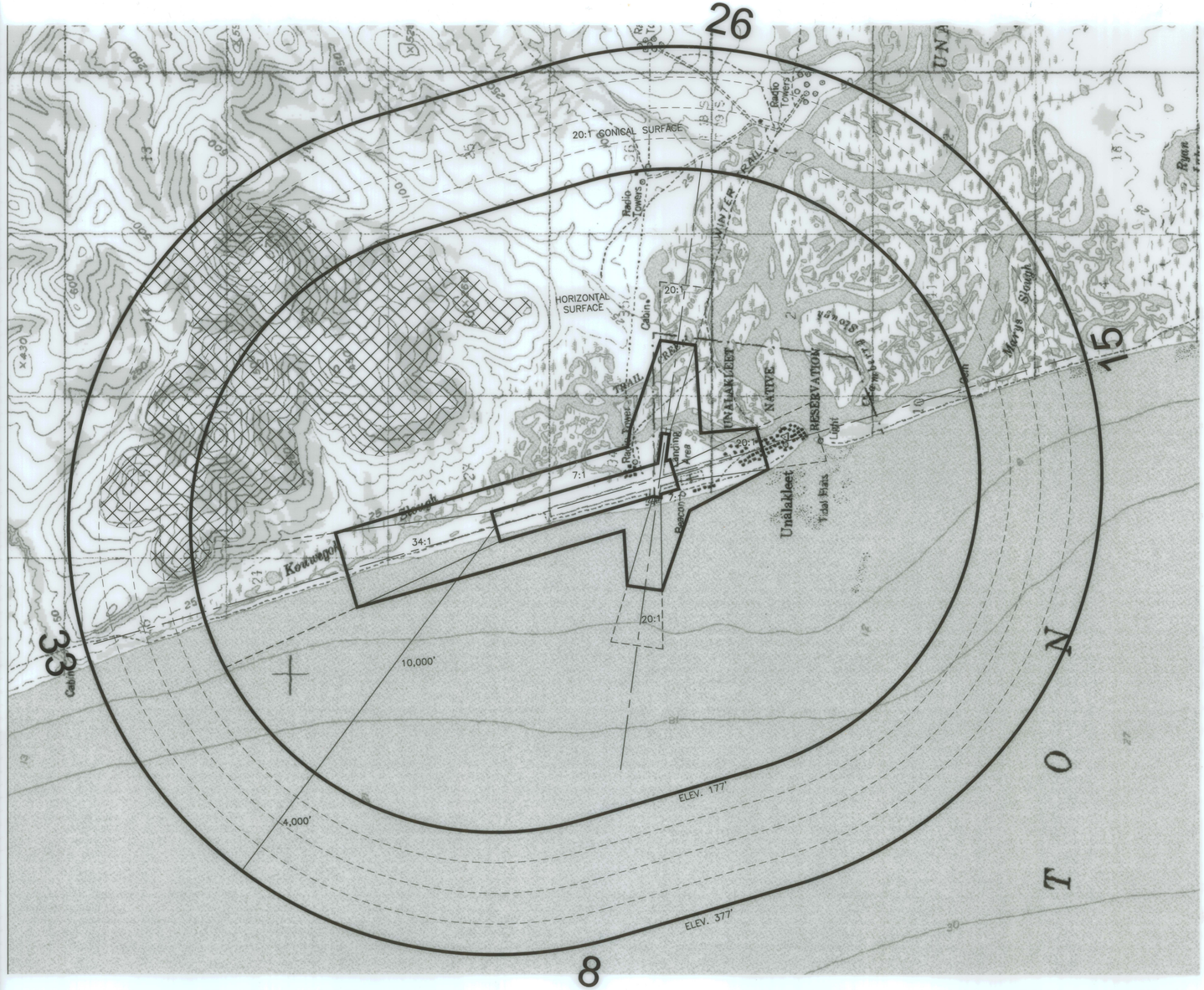
BY	DATE	REVISIONS

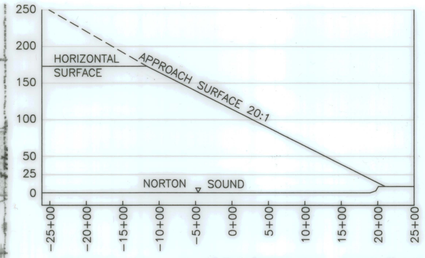
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION-DESIGN AND CONSTRUCTION-AVIATION
APPROVED [signature] DATE 12/21/2012
RYAN F. ANDERSON, P.E. DESIGN GROUP CHIEF

AIRPORT LAYOUT PLAN
Approved By Letter Dated: 1/7/13
[signature]
AIRPORTS DIVISION, ALASKAN REGION, AAL-601
AIRSPACE: 2005AAL-186NRA

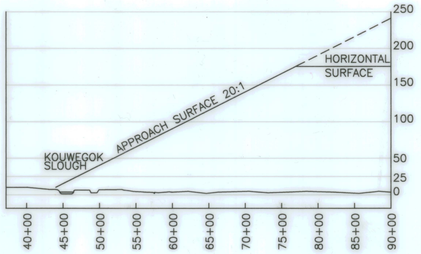
UNALAKLEET AIRPORT
R/W 8-26 INNER APPROACHES
AIRPORT LAYOUT PLAN

SHEET 5 OF 6

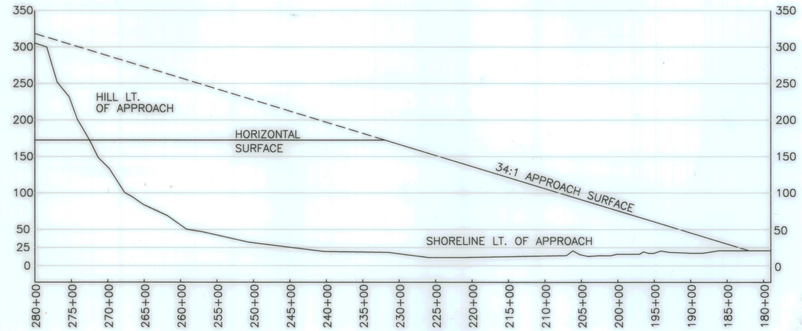




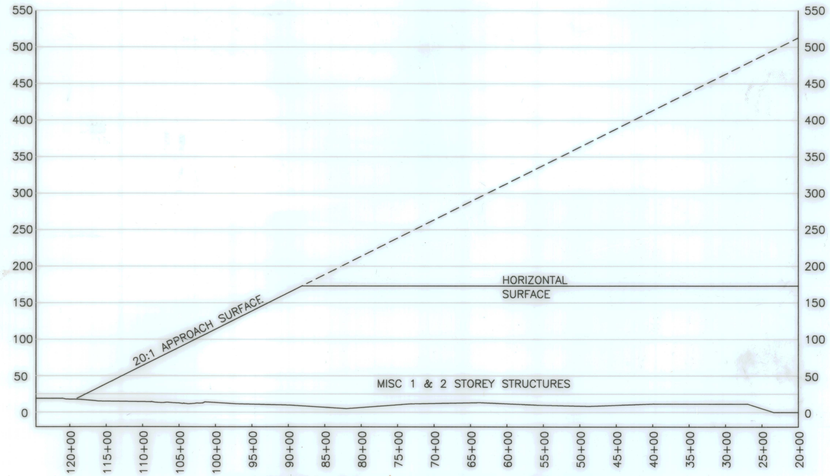
APPROACH 8 COMPOSITE PROFILE



APPROACH 26 COMPOSITE PROFILE



APPROACH 15 COMPOSITE PROFILE



APPROACH 33 COMPOSITE PROFILE

AIRPORT AIRSPACE OBSTRUCTIONS

SCALE: 1 INCH = 2000 FT., CONTOUR INTERVAL: 50 FEET
MAXIMUM AIRSPACE PENETRATION: 240 FEET
MAPPING CONSISTS OF U.S.G.S. QUAD D-4, UNALAKLEET, ALASKA
FOLIO K-17, KATEEL RIVER MERIDIAN

NOTE:
REFER TO THE INNER PORTION OF THE APPROACH SURFACE PLAN VIEW DETAILS FOR CLOSE-IN OBSTRUCTIONS.

FAR PART 77 PENETRATIONS

T:\00 Aviation & Community Rds & Buildings\Unalakleet\0 General\02 ALP File\2012 ALP As Built\UNALAKLEET 2012_th-ALP6

DESIGN TDH
DRAWN CAP
CHECKED RWC

BY	DATE	REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION-DESIGN AND CONSTRUCTION-AVIATION
APPROVED DATE 12/21/2012
RYAN F. ANDERSON, P.E. DESIGN GROUP CHIEF

AIRPORT LAYOUT PLAN
Approved By Letter Dated: 1/7/13
AIRPORTS DIVISION, ALASKAN REGION, AAL-601
AIRSPACE: 2005AAL-186NRA

UNALAKLEET AIRPORT
AIRSPACE AND APPRAOCH COMPOSITE PROFILES
AIRPORT LAYOUT PLAN

SHEET 6 OF 6